



April 29, 2008

Mr. Charles L. A. Terreni
Chief Clerk & Administrator
Public Service Commission of South Carolina
P. O. Drawer 11649
Columbia, South Carolina 29211

RE: 2007 Testing Program of Meters, Docket No. 89-499-E

Dear Mr. Terreni:

Under Commission Rule 103-370(1) and in accordance with the Commission's Order in Docket No. 89-499-E, Order No. 90-131, dated February 6, 1990, Carolina Power & Light Company, d/b/a Progress Energy Carolinas, Inc. (Progress Energy) is authorized to use a sample meter testing plan for testing single-phase meters and three-phase (self-contained) non-demand meters, and to periodically test other meters in accordance with approved test plans. Progress Energy is transmitting herewith eleven copies of the results of the Company's 2007 Statistical Watt-hour Meter Sample and Periodic Meter Test Results.

All of the meter groups contained in the sample and periodic meter testing plans passed the test criteria.

Sincerely,

A handwritten signature in black ink, appearing to read 'Len S. Anthony', with a large, sweeping loop at the end.

Len S. Anthony
General Counsel – Progress Energy Carolinas, Inc.

Enclosures

cc: Mr. John Flitter

260668

Progress Energy Carolinas

2007 Watthour Meter Sample
Watthour Meter Groupings

Mfg	Group	Test Method	Number Tested	Sample Conclusion
Landis & Gyr	17	Double	178	Passes Test
ABB	31	Double	181	Passes Test
Landis & Gyr	32	Double	177	Passes Test
GE	33	Double	177	Passes Test
Sangamo	34	Attribute	174	Passes Test
ABB	35	Double	177	Passes Test
GE	37	Double	176	Passes Test

Progress Energy - Carolinas
SELECTIVE SAMPLE
Watthour Meter Group 17 Summary

Group Information

Manufacturer: L&G
Watthour Meter Type(s): DXMX

PE Type Code(s): U09

Meter Classification: TOS1NI
Methodology: Double Sampling Phase 1
Population: 14718
Sample Size: 178

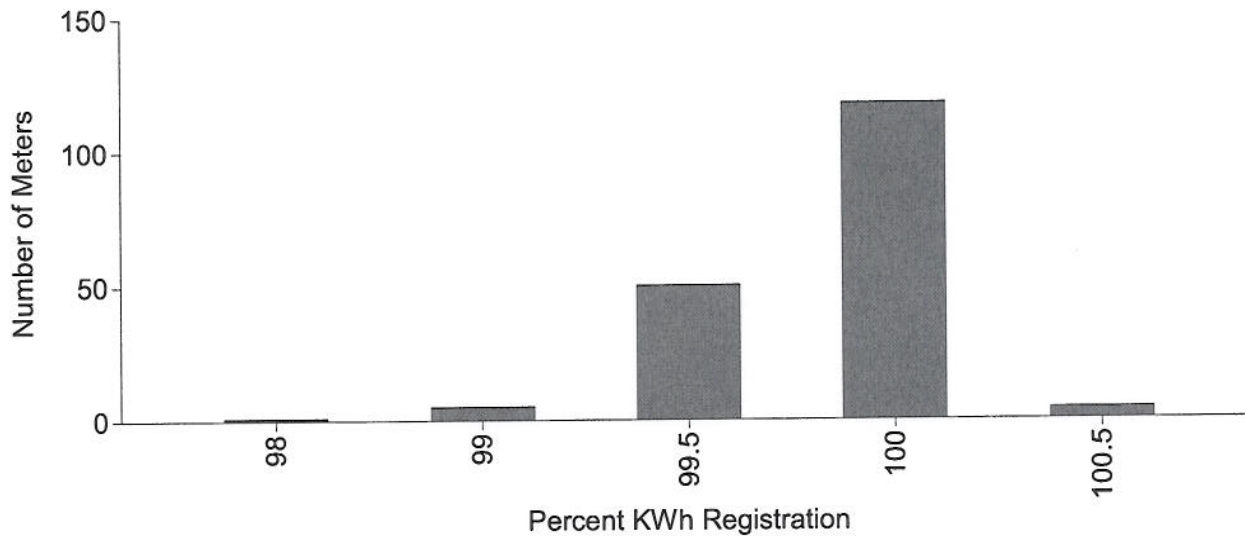
Full Load Test Summary

Mean: 99.812
Standard Deviation: 0.2641
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 178
Number of Tests < 98%: 0

Group Test Summary

This Group **PASSES** the sample test since the number of fast watthour meters is less than 2

Histogram of Group 17 Meter Accuracies



Progress Energy - Carolinas

SELECTIVE SAMPLE

Watthour Meter Group 31 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): AB1,D4S,D5S,D5S E,D5SE

PE Type Code(s): H13,T31,T50,T73,T78,TB5,TG8

Meter Classification: TO/ND/ED

Methodology: Double Sampling Phase 1

Population: 10901

Sample Size: 181

Full Load Test Summary

Mean: 100.058

Standard Deviation: 0.2929

Number of Tests > 102%: 0

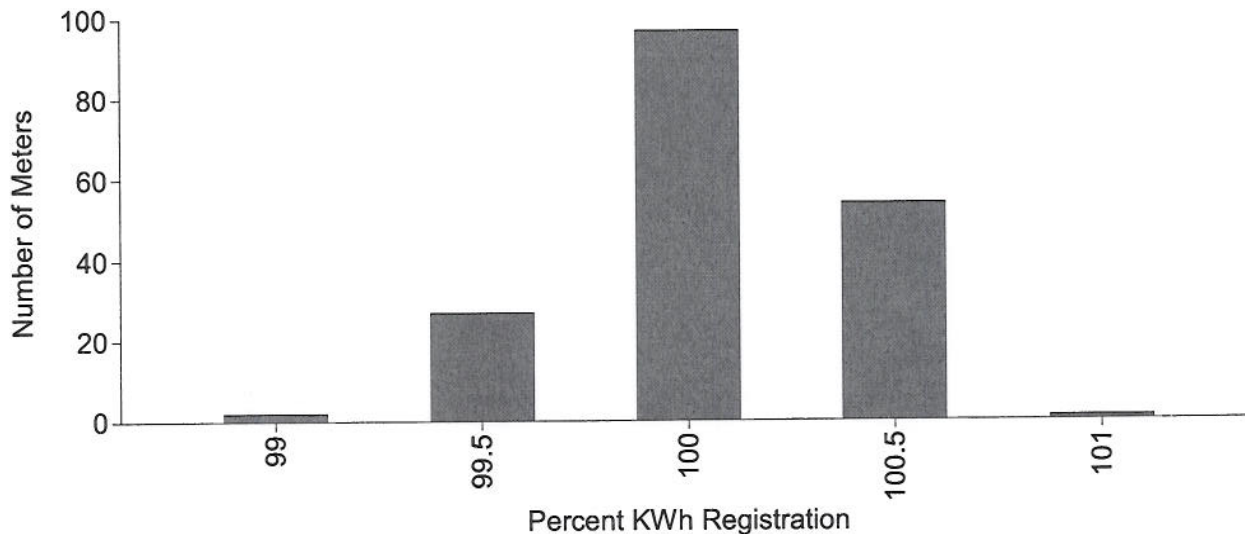
Number of Tests 98 - 102%: 181

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 31 Meter Accuracies



Progress Energy - Carolinas

SELECTIVE SAMPLE

Watthour Meter Group 32 Summary

Group Information

Manufacturer: L&G

Watthour Meter Type(s): MS II,TMS II,TQS

PE Type Code(s): K09,K11,K12,U03,U04,U05

Meter Classification: TD/ND/ST

Methodology: Double Sampling Phase 1

Population: 2370

Sample Size: 177

Full Load Test Summary

Mean: 99.782

Standard Deviation: 0.4582

Number of Tests > 102%: 0

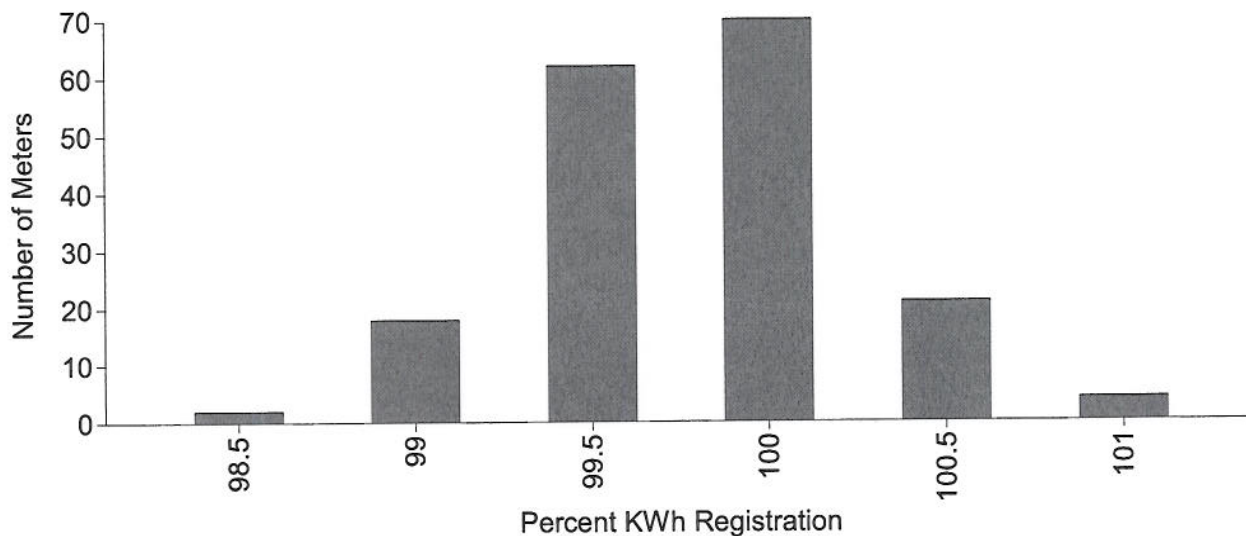
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 32 Meter Accuracies



Progress Energy - Carolinas

SELECTIVE SAMPLE

Watthour Meter Group 33 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): I 50S,I 70S,IL70S,IL70S/2,IM 70S,IM70S,IM70S/2,IRM 70S,IRM70S,IRM-70
S,IRM70S/2,KV,KV2C

PE Type Code(s): E29,E30,E34,E35,E36,E37,E41,E42,E43,E44,E46,E47,E48,L05,L78,L84,L85,
LB7,LC6,LG4,LG7,LL5,LM8

Meter Classification: TO/ND/ED

Methodology: Double Sampling Phase 1

Population: 25038

Sample Size: 177

Full Load Test Summary

Mean: 99.986

Standard Deviation: 0.2749

Number of Tests > 102%: 0

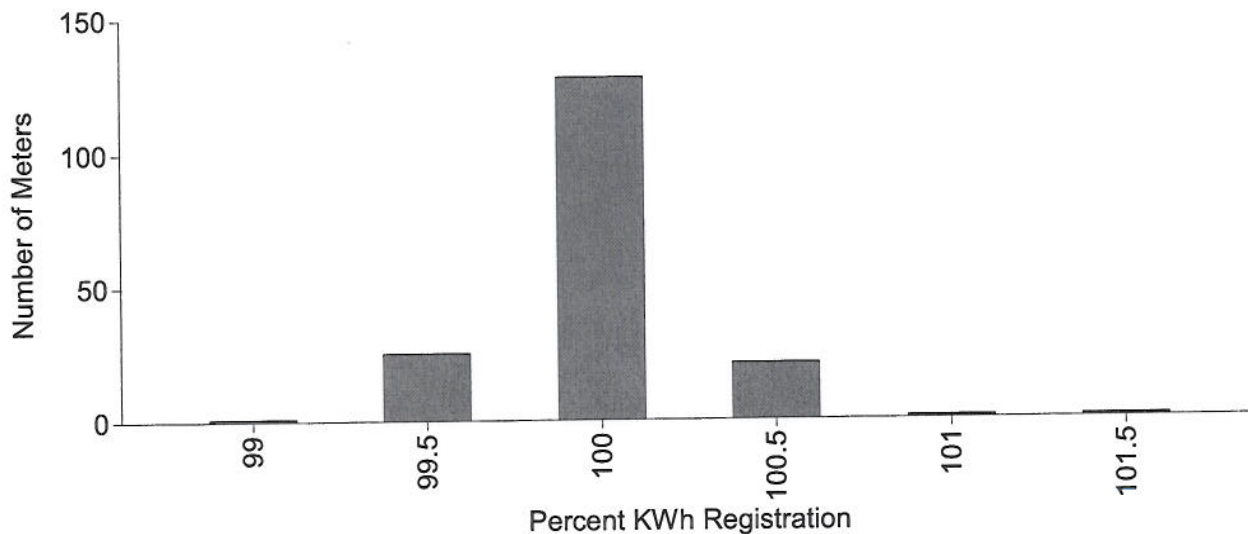
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 33 Meter Accuracies



Progress Energy - Carolinas

SELECTIVE SAMPLE

Watthour Meter Group 34 Summary

Group Information

Manufacturer: SAN

Watthour Meter Type(s): J3S,J3TS,J4ESD,J4S,J4TS,J5DS,J5S,J5SD,KWS

PE Type Code(s): A07,A08,A13,A16,A18,A23,M08,M16,M22,M23,M24,M26

Meter Classification: TO/ND/ST

Methodology: Attribute Sampling

Population: 8072

Sample Size: 174

Full Load Test Summary

Mean: 99.675

Standard Deviation: 1.6964

Number of Tests > 102%: 0

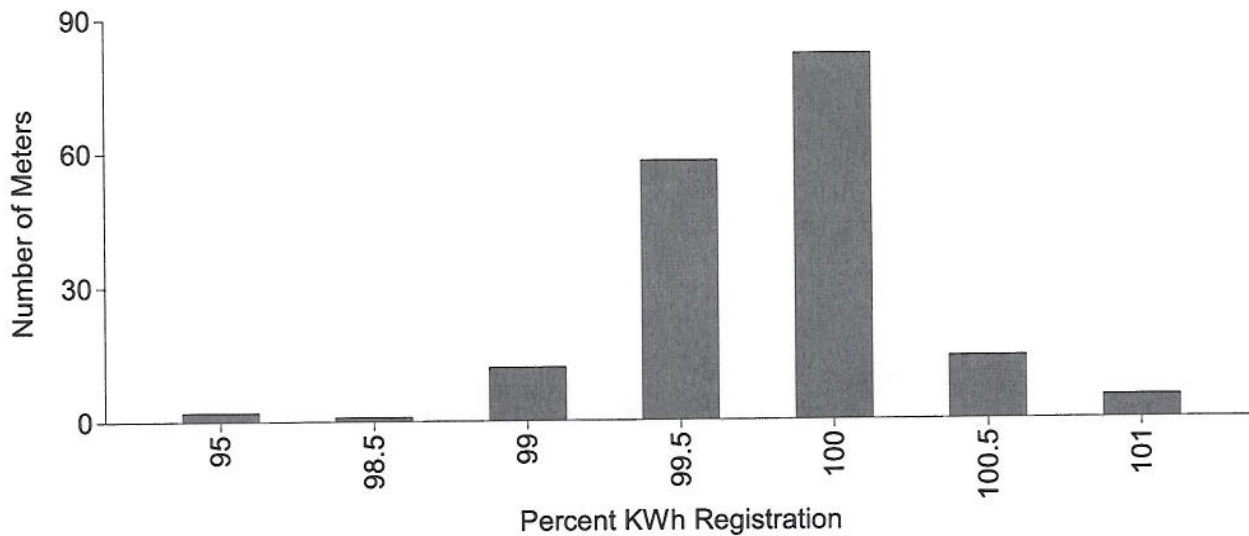
Number of Tests 98 - 102%: 172

Number of Tests < 98%: 2

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 7

Histogram of Group 34 Meter Accuracies



Progress Energy - Carolinas

SELECTIVE SAMPLE

Watthour Meter Group 35 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): A1D,A1D+,A1T+,A1TLQ+,AIT+,AITLQ+

PE Type Code(s): H21,H22,H24,H28,H30,H31,H32,H33,H34,TE4,TE6,TG6,TG7

Meter Classification: NDS1NI

Methodology: Double Sampling Phase 1

Population: 7819

Sample Size: 177

Full Load Test Summary

Mean: 100

Standard Deviation: 0.0363

Number of Tests > 102%: 0

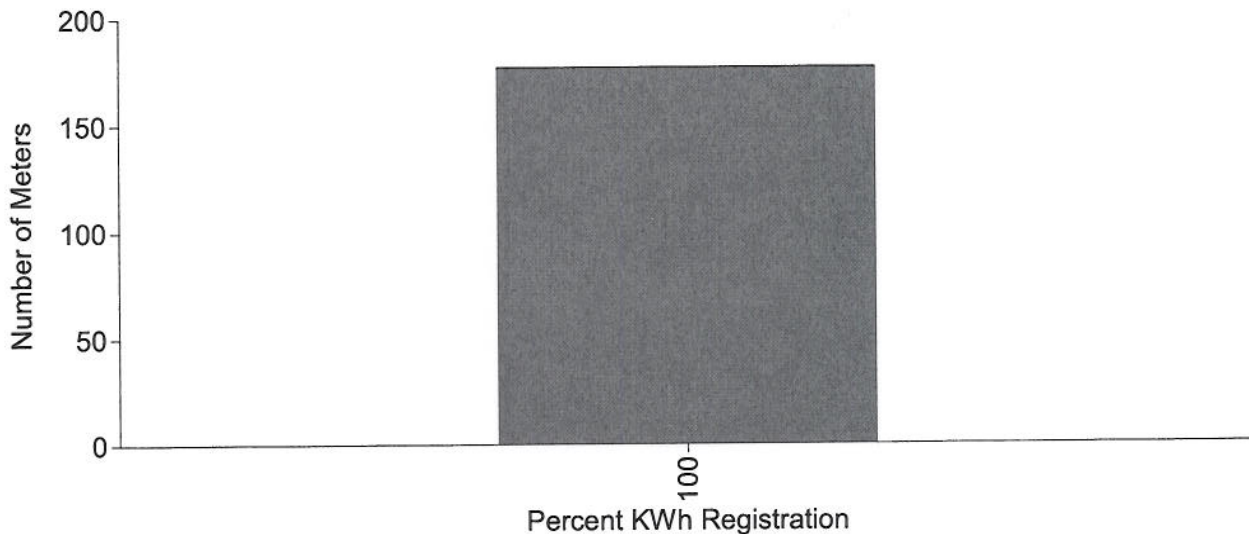
Number of Tests 98 - 102%: 177

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 35 Meter Accuracies



Progress Energy - Carolinas

SELECTIVE SAMPLE

Watthour Meter Group 37 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): KV,KV2C,V 66S,VM 62S

PE Type Code(s): LR8,LT3,LT6,R51,R73

Meter Classification: NDS1NI

Methodology: Double Sampling Phase 1

Population: 4613

Sample Size: 176

Full Load Test Summary

Mean: 99.895

Standard Deviation: 1.3104

Number of Tests > 102%: 0

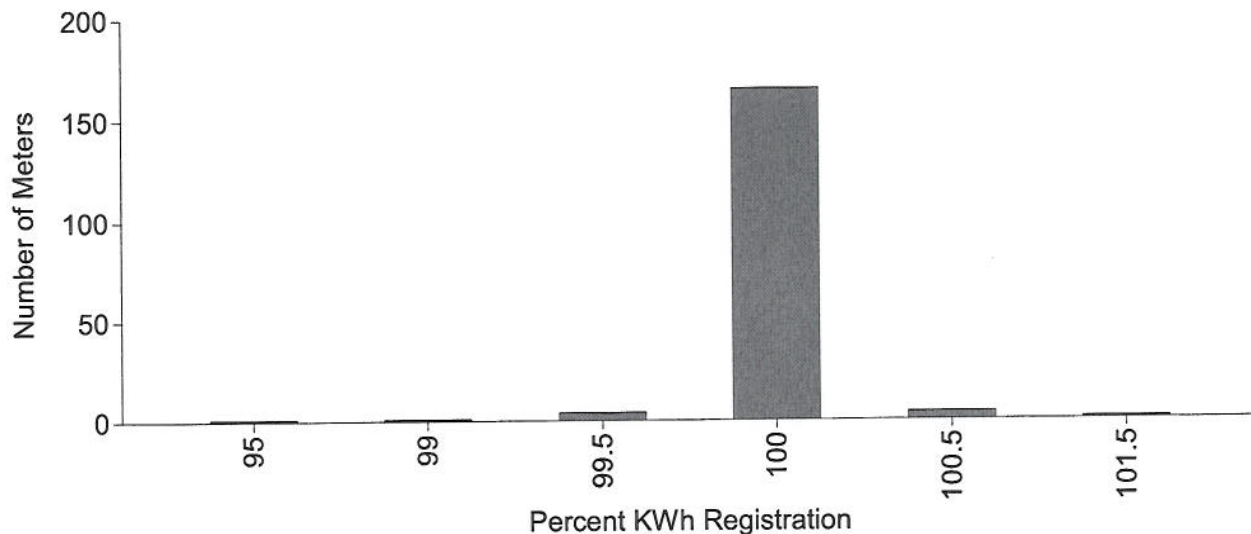
Number of Tests 98 - 102%: 175

Number of Tests < 98%: 1

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 37 Meter Accuracies



Progress Energy Carolinas

2007 Watthour Meter Periodic Tests
Watthour Meter Groupings

Mfg	Group	Test Method	Number Tested	Sample Conclusion
GE	813	Field	36	n/a
GE	814	Field	5	n/a
GE	816	Field	13	n/a
GE	818	Field	72	n/a
GE	819	Field	86	Passes Test
GE	820	Field	1	n/a
ABB	824	Field	4	n/a
ABB	827	Field	4	n/a
ABB	828	Field	5	n/a
Sangamo	833	Field	2	n/a
GE	845	Field	160	Passes Test
ABB	846	Field	329	Passes Test
GE	847	Field	510	Passes Test
Landis & Gyr	848	Field	289	Passes Test
Sangamo	903	Shop	2	n/a
GE	915	Shop	78	Passes Test
GE	916	Shop	14	n/a
ABB	924	Shop	30	n/a

NOTE: 75 tests are required to determine pass/fail criteria; tests above marked "n/a" had sample sizes smaller than 75

Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 813 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VRM 63A,VRM 64A,VRM 64S,VRM64A,VRM64S

PE Type Code(s): LC8,LG8,LH9,LB9,LG6

Meter Classification: TOT3NI

Methodology: Periodic Test

Population: 1433

Sample Size: 36

Full Load Test Summary

Mean: 100.098

Standard Deviation: 0.2761

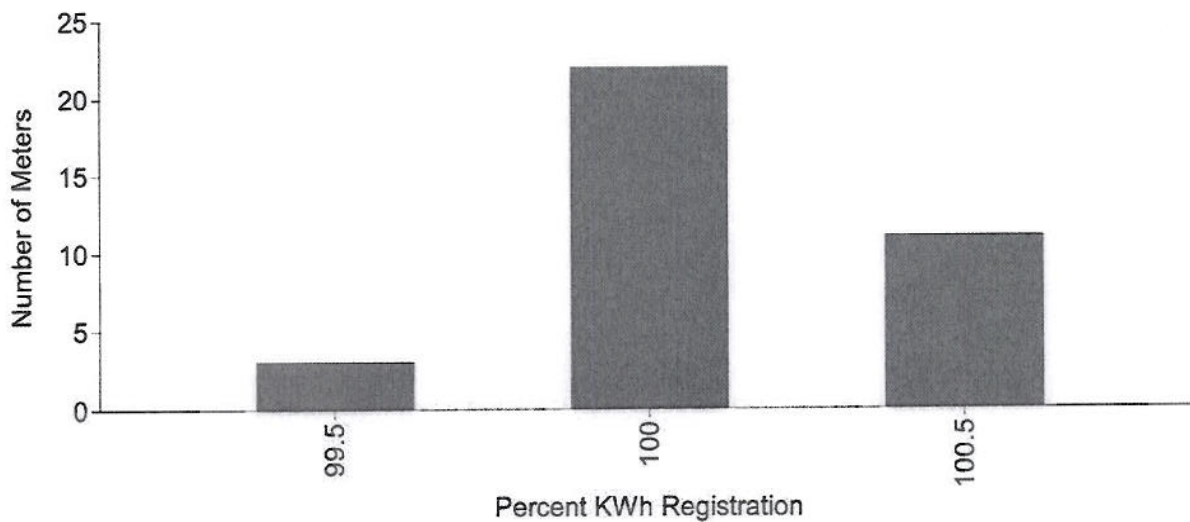
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 36

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 813 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 814 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VW 63A,VW 63S,VW 64A,VW 64S,VW63S,VW64S

PE Type Code(s): LH6,L44,L47,L50,LH7,L73,LE3,L71

Meter Classification: NDT3WI

Methodology: Periodic Test

Population: 38

Sample Size: 5

Full Load Test Summary

Mean: 100.174

Standard Deviation: 0.1887

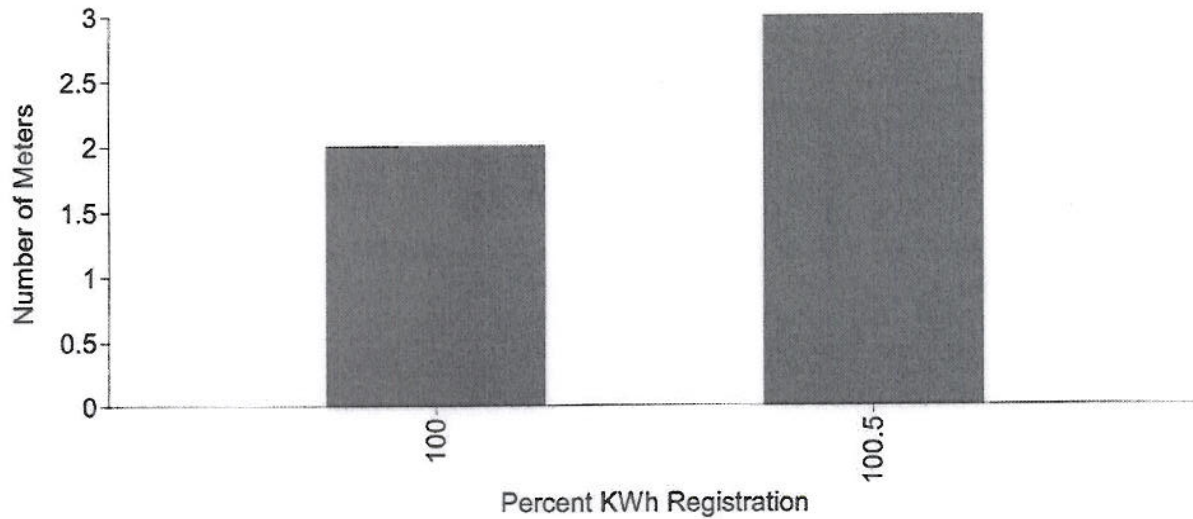
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 5

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 814 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 816 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VRMW 64A,VRMW64A

PE Type Code(s): LB8,LG5

Meter Classification: TOT3WI

Methodology: Periodic Test

Population: 39

Sample Size: 13

Full Load Test Summary

Mean: 100.188

Standard Deviation: 0.2474

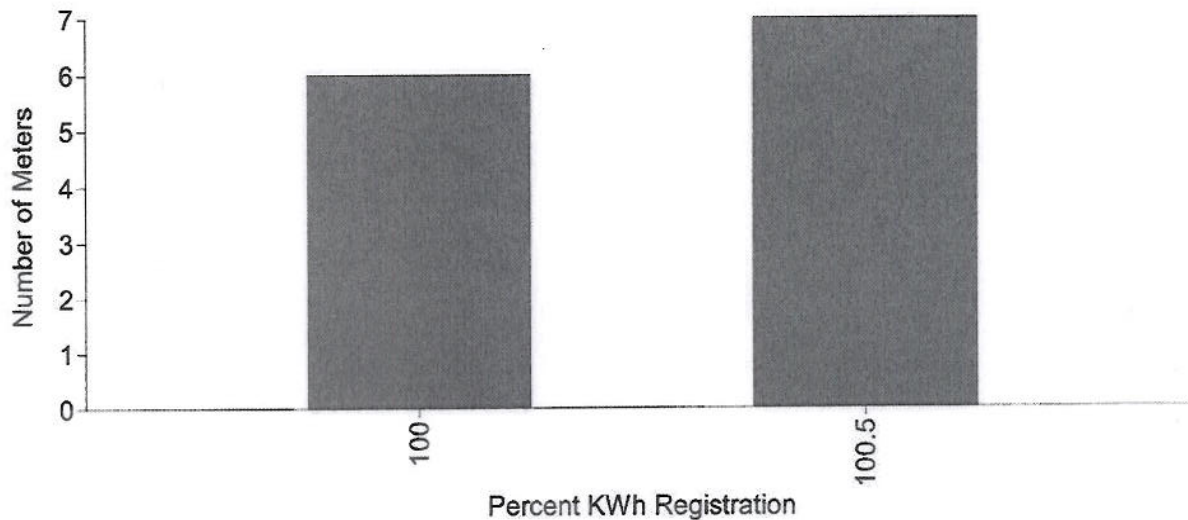
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 13

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 816 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 818 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): V 63A,V 63S,V 64A,V 64S,V63A,V63S,V64A,V64S

PE Type Code(s): LF1,LE7,LF7,LD3,LF8,LE8,LE9,L42,L64,LD2,L48,L45

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 1834

Sample Size: 72

Full Load Test Summary

Mean: 100.068

Standard Deviation: 0.2847

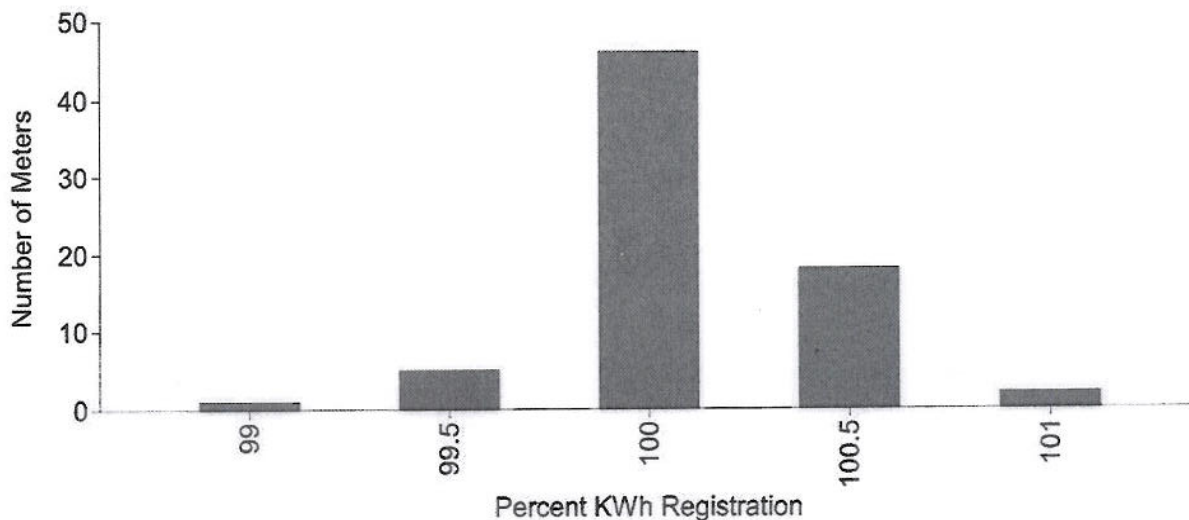
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 72

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 818 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 819 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VM 63A, VM 63S, VM 64A, VM 64S, VM63A, VM63S, VM64A, VM64S

PE Type Code(s): LF4, LF9, LD4, LB5, LF5, LC1, LF6, LF2, LC5, LB3

Meter Classification: EDT3NI

Methodology: Periodic Test

Population: 4004

Sample Size: 86

Full Load Test Summary

Mean: 100.09

Standard Deviation: 0.2463

Number of Tests > 102%: 0

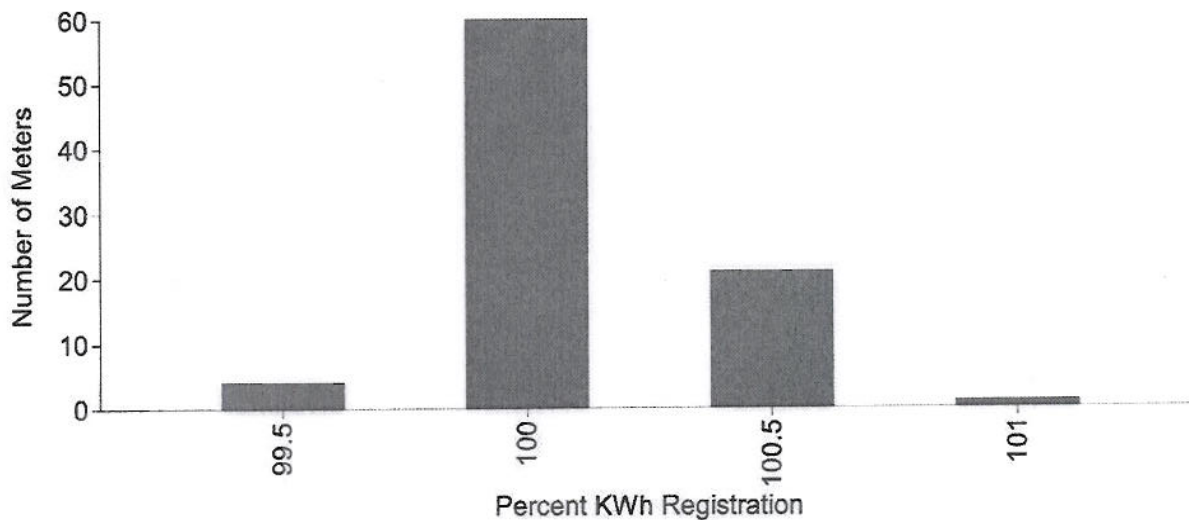
Number of Tests 98 - 102%: 86

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 1

Histogram of Group 819 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 820 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VM 63A

PE Type Code(s): L43,L46

Meter Classification: MDT3NI

Methodology: Periodic Test

Population: 3

Sample Size: 1

Full Load Test Summary

Mean: 99.74

Standard Deviation: 0

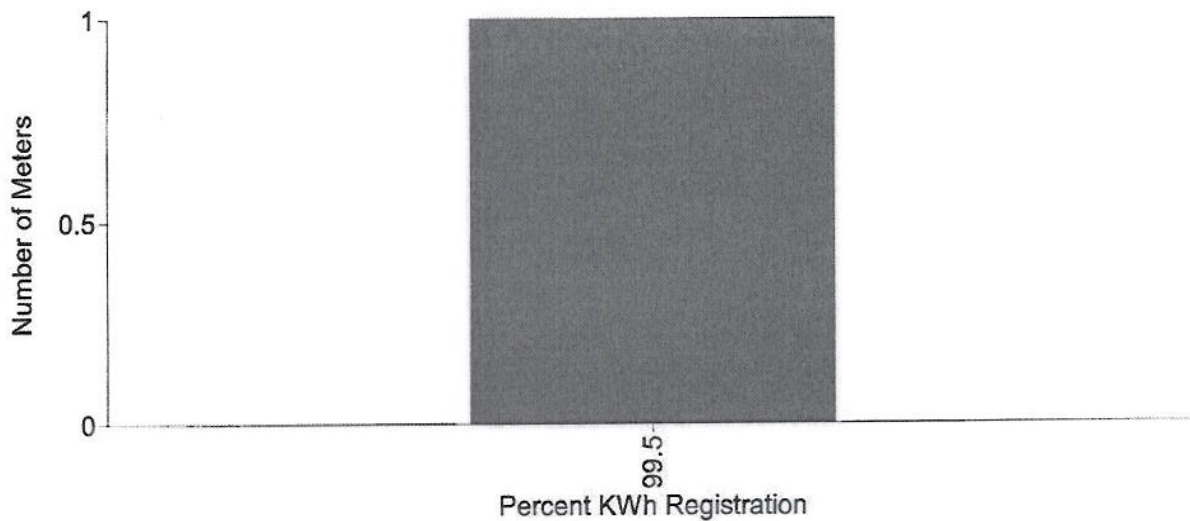
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 1

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 820 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 824 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): D4S2,D4S3,D5S3

PE Type Code(s): T34,T61,T66

Meter Classification: NDT3WI

Methodology: Periodic Test

Population: 14

Sample Size: 4

Full Load Test Summary

Mean: 99.773

Standard Deviation: 0.1038

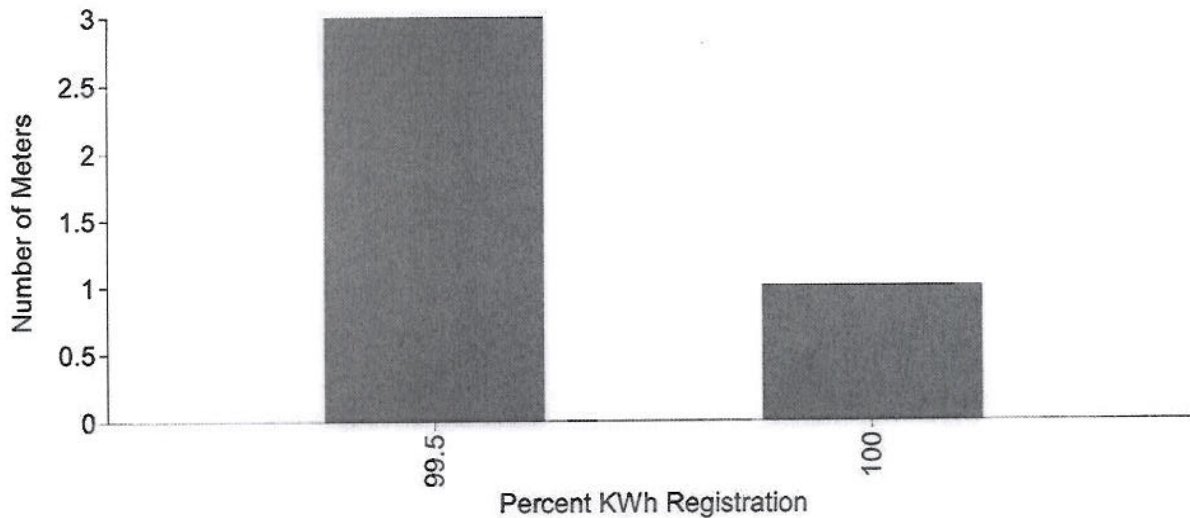
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 4

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 824 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 827 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): ABA-2,D5A 2,D5S 3

PE Type Code(s): T76,T77,T79,TB7,TC3

Meter Classification: NDT3NI

Methodology: Periodic Test

Population: 150

Sample Size: 4

Full Load Test Summary

Mean: 99.95

Standard Deviation: 0.3382

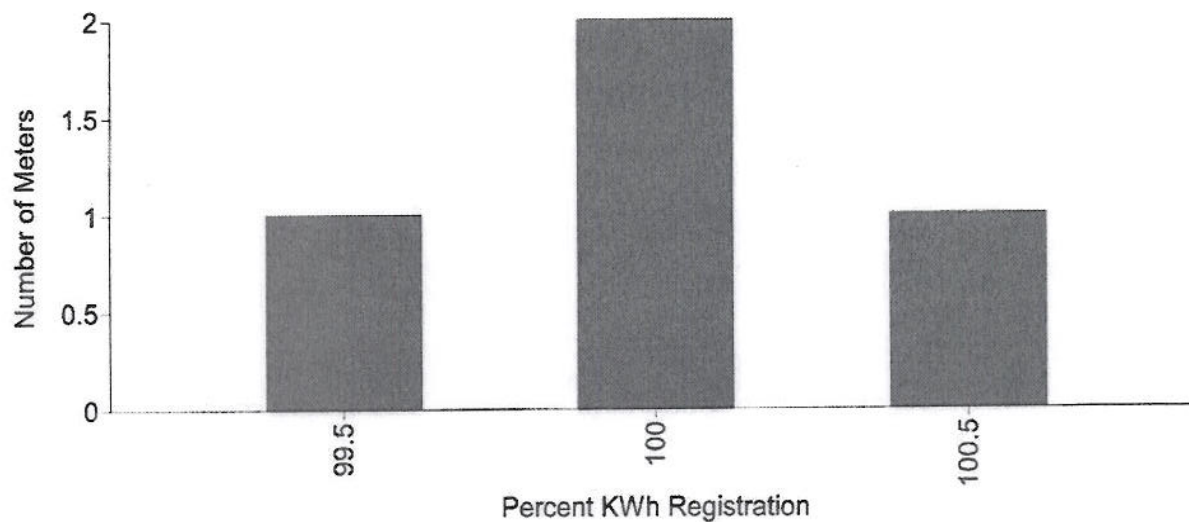
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 4

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 827 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 828 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): D5A 2E,D5A 3E,D5S 3E,D5S2E

PE Type Code(s): T71,T72,T80,T96

Meter Classification: EDT3NI

Methodology: Periodic Test

Population: 321

Sample Size: 5

Full Load Test Summary

Mean: 100.094

Standard Deviation: 0.1545

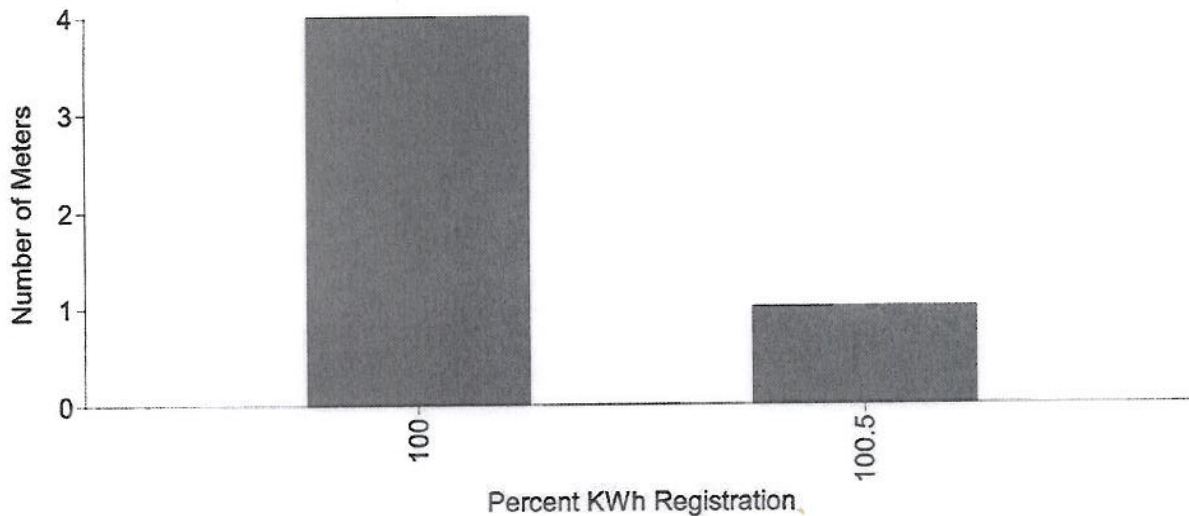
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 5

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 828 Meter Accuracies



Progress Energy - Carolinas
FIELD PERIODIC
Watthour Meter Group 833 Summary

Group Information

Manufacturer: SAN
Watthour Meter Type(s): SL4A

PE Type Code(s): M29

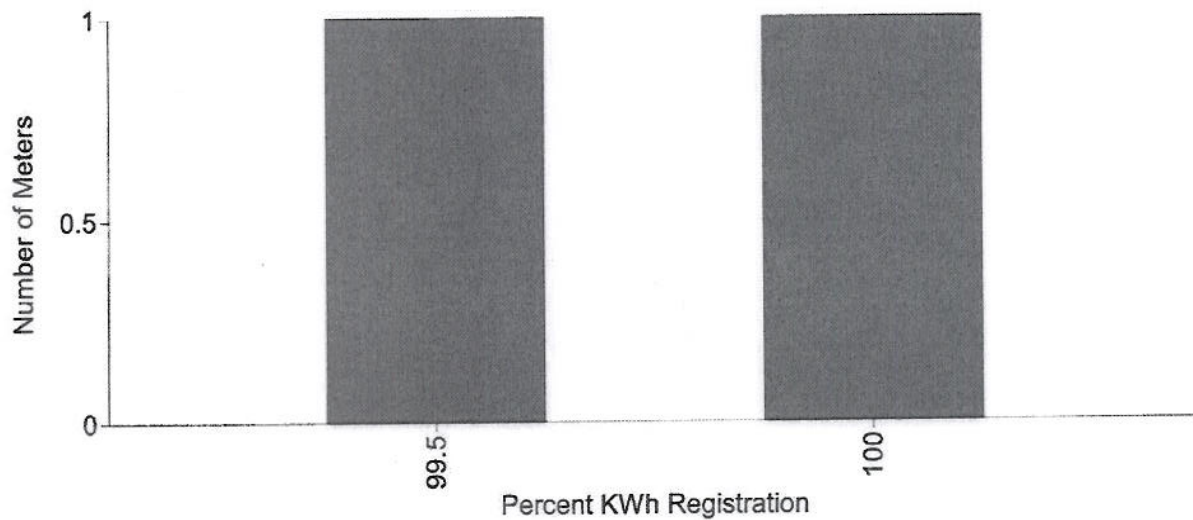
Meter Classification: NDT3NI
Methodology: Periodic Test
Population: 65
Sample Size: 2

Full Load Test Summary

Mean: 99.67
Standard Deviation: 0.32
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 2
Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 833 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 845 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): EV-3,EV4,EV-4

PE Type Code(s): LK9,LL6,LM6,LN2,LJ8,LK5,LN4,LK6,LM7,LN1,LM5,LL7,LM4,LK1,LM2,LJ9,LM3,
LL8,LL2,LM1,LJ5,LL9,LJ6,LJ7,LL1

Meter Classification: SDT3NI

Methodology: Periodic Test

Population: 5600

Sample Size: 160

Full Load Test Summary

Mean: 100.07

Standard Deviation: 0.1604

Number of Tests > 102%: 0

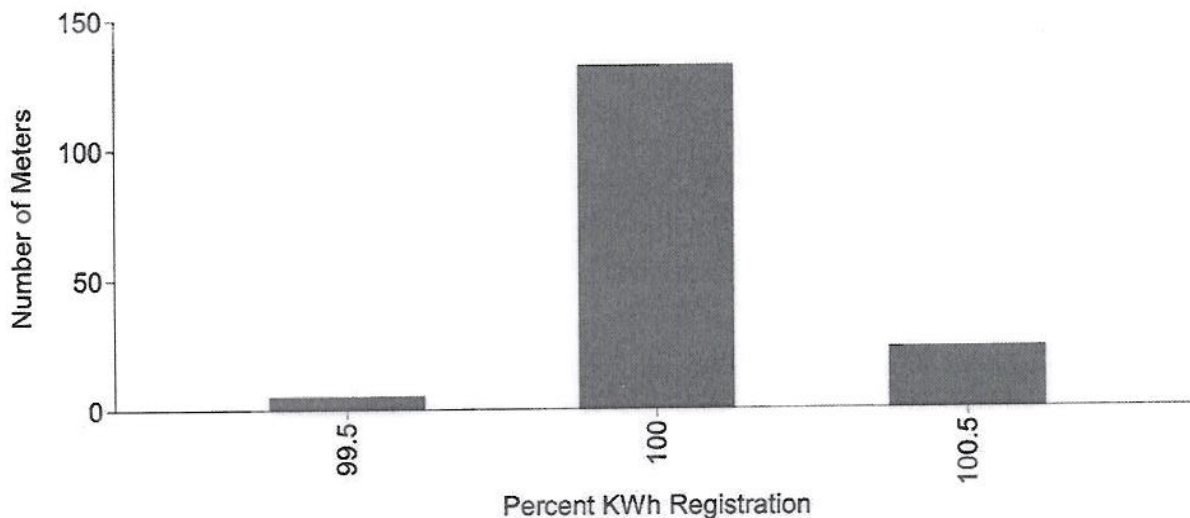
Number of Tests 98 - 102%: 160

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 2

Histogram of Group 845 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watthour Meter Group 846 Summary

Group Information

Manufacturer: ABB

Watthour Meter Type(s): A1D,A1D+,A1RLQ+,A1T+,A1D+,A1RLQ+

PE Type Code(s): TA9,TH3,TF6,TF4,TH2,TA6,TA4,TA8,TA5,T98,TD9,TB1,TC7,TF7,TC9,TD8,TC8,
TD6,TF5,TC6,TD7,TA3,TF3,TD5

Meter Classification: SDT3NI

Methodology: Periodic Test

Population: 5750

Sample Size: 329

Full Load Test Summary

Mean: 99.981

Standard Deviation: 0.0663

Number of Tests > 102%: 0

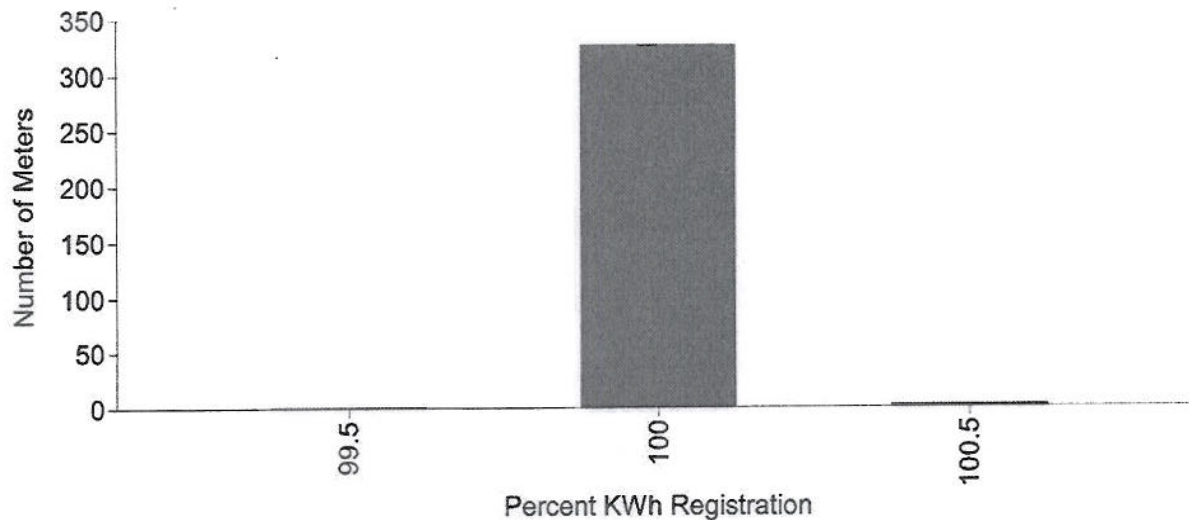
Number of Tests 98 - 102%: 329

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 6

Histogram of Group 846 Meter Accuracies



Progress Energy - Carolinas

FIELD PERIODIC

Watt-hour Meter Group 847 Summary

Group Information

Manufacturer: GE

Watt-hour Meter Type(s): KV,KV2C

PE Type Code(s): LR9,LP2,LP3,LP4,LT1,LN9,LN8,LN7,LR3,LP5,LP9,LR2,LP6,LN6,LT8,LR1,LP7,
LP8,LT7

Meter Classification: SDT3NI

Methodology: Periodic Test

Population: 9445

Sample Size: 510

Full Load Test Summary

Mean: 99.764

Standard Deviation: 3.5748

Number of Tests > 102%: 6

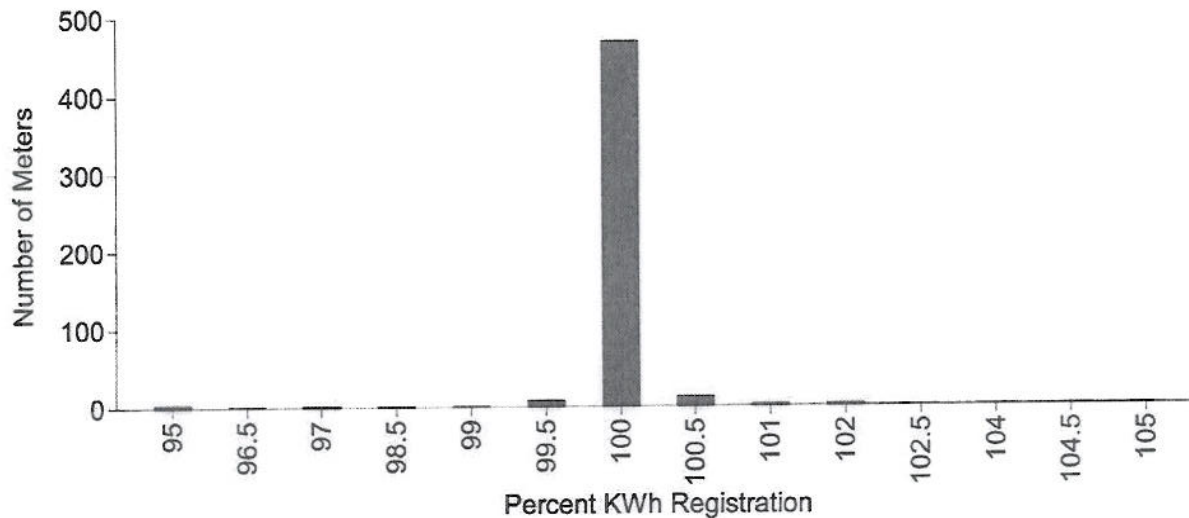
Number of Tests 98 - 102%: 497

Number of Tests < 98%: 7

Group Test Summary

This Group PASSES the sample test since the number of fast watt-hour meters is less than 11

Histogram of Group 847 Meter Accuracies



Progress Energy - Carolinas
FIELD PERIODIC

Watthour Meter Group 848 Summary

Group Information

Manufacturer: L&G
Watthour Meter Type(s): AXS4

PE Type Code(s): K15,K16

Meter Classification: STT3NI
Methodology: Periodic Test
Population: 4525
Sample Size: 288

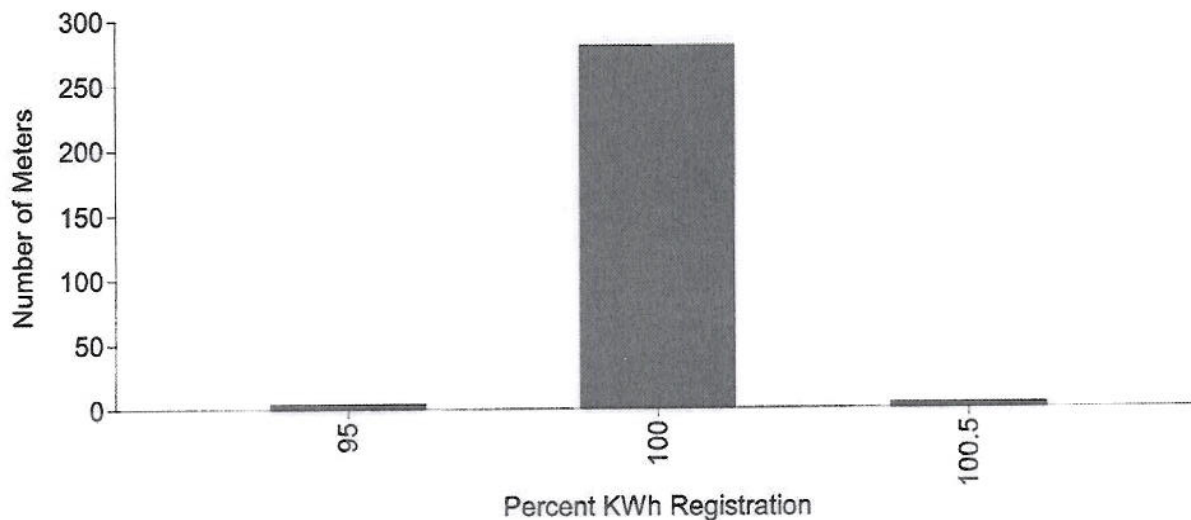
Full Load Test Summary

Mean: 99.643
Standard Deviation: 5.3328
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 284
Number of Tests < 98%: 4

Group Test Summary

This Group **PASSES** the sample test since the number of fast watthour meters is less than 4

Histogram of Group 848 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC
Watthour Meter Group 903 Summary

Group Information

Manufacturer: SAN
Watthour Meter Type(s): SL5SD

PE Type Code(s): N14

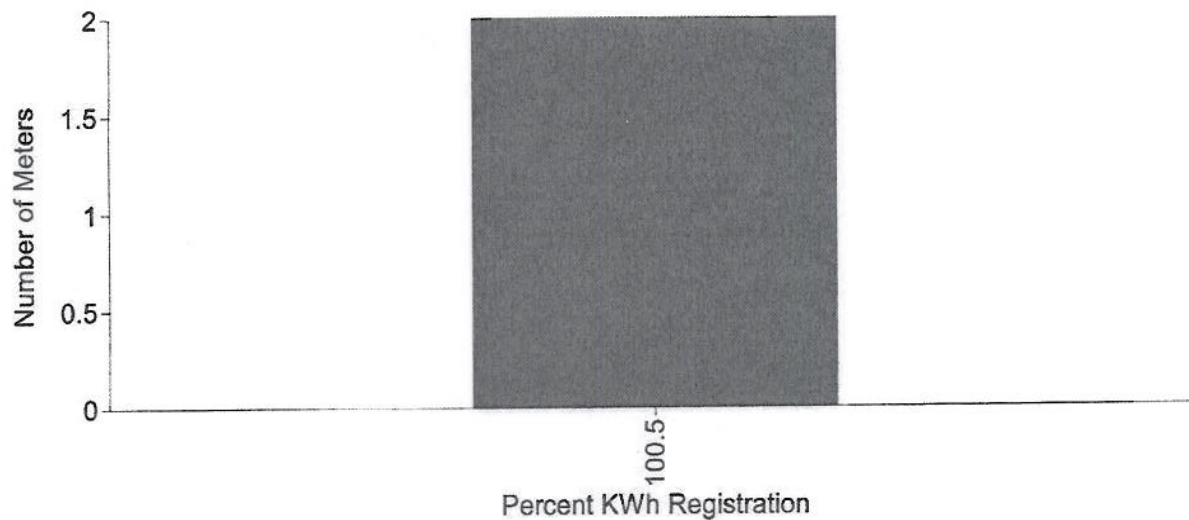
Meter Classification: EDS3NI
Methodology: Periodic Test
Population: 153
Sample Size: 2

Full Load Test Summary

Mean: 100.295
Standard Deviation: 0.045
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 2
Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 903 Meter Accuracies



Progress Energy - Carolinas

SHOP PERIODIC

Watthour Meter Group 915 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VM 65S, VM 66S

PE Type Code(s): R68, R69

Meter Classification: EDS3NI

Methodology: Periodic Test

Population: 2545

Sample Size: 78

Full Load Test Summary

Mean: 99.858

Standard Deviation: 0.2857

Number of Tests > 102%: 0

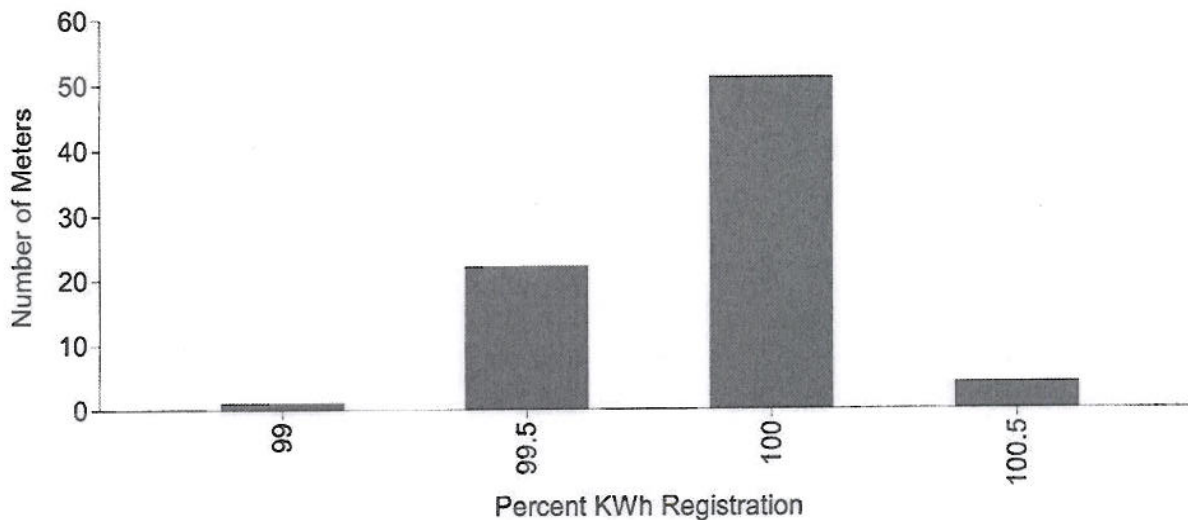
Number of Tests 98 - 102%: 78

Number of Tests < 98%: 0

Group Test Summary

This Group PASSES the sample test since the number of fast watthour meters is less than 1

Histogram of Group 915 Meter Accuracies



Progress Energy - Carolinas

SHOP PERIODIC

Watthour Meter Group 916 Summary

Group Information

Manufacturer: GE

Watthour Meter Type(s): VRM 65S,VRM 66S,VRM65S

PE Type Code(s): R72,R79,R82

Meter Classification: TOS3NI

Methodology: Periodic Test

Population: 188

Sample Size: 14

Full Load Test Summary

Mean: 100.09

Standard Deviation: 0.268

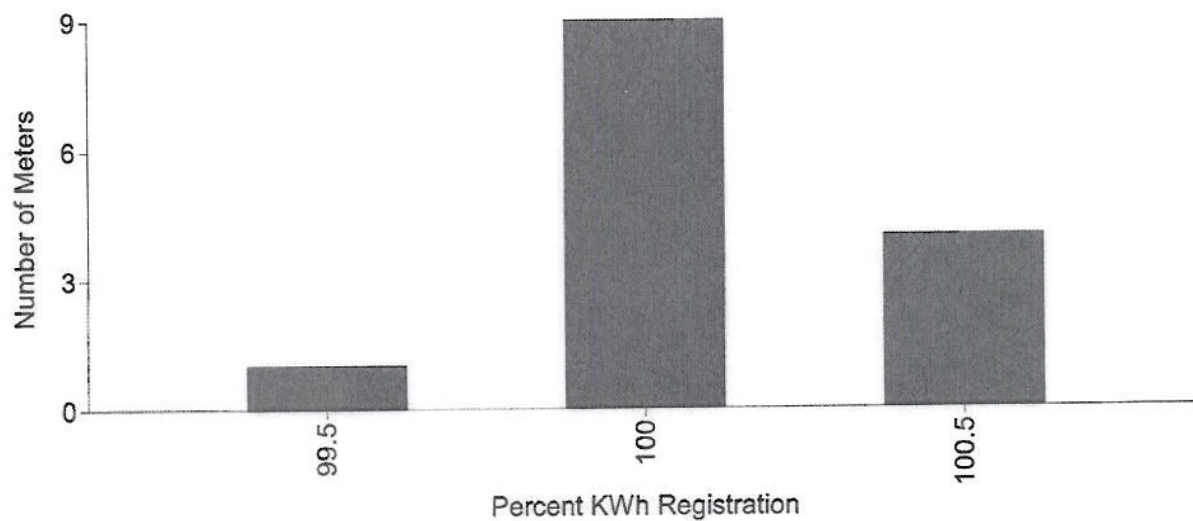
Number of Tests > 102%: 0

Number of Tests 98 - 102%: 14

Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 916 Meter Accuracies



Progress Energy - Carolinas
SHOP PERIODIC
Watthour Meter Group 924 Summary

Group Information

Manufacturer: ABB
Watthour Meter Type(s): D5S 7E,D5S 8E

PE Type Code(s): Y35,Y36

Meter Classification: EDS3NI
Methodology: Periodic Test
Population: 693
Sample Size: 30

Full Load Test Summary

Mean: 100.431
Standard Deviation: 0.4554
Number of Tests > 102%: 0
Number of Tests 98 - 102%: 30
Number of Tests < 98%: 0

Group Test Summary

Histogram of Group 924 Meter Accuracies

